AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): Camera apparatus comprising: a camera for photographing a subject; a rotating body for rotating said camera in order to track said subject; and a controller for controlling the motion of said rotating body and a~~the~~ photographing operation of the camera;

wherein said controller comprises:

operation determination means for analyzing and determining ~~the~~ input operation instruction information on said rotating body and said camera;

data holding means for holding ~~the~~ status information on the photographing operation of the camera, wherein the status information includes a distance from the camera to at least one of the subject and a floor, and further wherein said distance is obtained based on a focusing control operation;

main control means for calculating an optimum speed to track said subject based on the information output from said operation determination means and said data holding means and outputting the speed to said rotating body, wherein said information output from said data holding means includes the distance from the camera to said at least one of the subject and the floor; and

drive means for driving said rotating body.

Claim 2 (Currently amended): The camera apparatus according to claim 1, wherein said information output from said data holding means includes both of~~holds information on~~ the distance from said camera to the subject and the distance from the camera to the floor~~obtained by way of focusing control as said status information to be output to said main control means~~.

Claim 3 (Canceled)

Claim 4 (Currently amended): The camera apparatus according to claim 1, wherein said data holding means holds information on an~~the~~ orientation of said rotating body in the vertical direction as said status information to be output to said main control means.

Claim 5 (Currently amended): The camera apparatus according to claim 1, wherein said data holding means holds information on an~~the~~ orientation of said rotating body in the horizontal direction as said status information to be output to said main control means.

Claim 6 (Currently amended): The camera apparatus according to claim 1, wherein said data holding means holds information on ~~the~~ motion detection information on said rotating body as said status information to be output to said main control means.

Claim 7 (Currently amended): The camera apparatus according to claim 1, wherein said data holding means holds ~~said~~ user-specific information as said status information to be output to said main control means.

Claim 8 (Currently amended): The camera apparatus according to claim 1, wherein said information output from said data holding means further includes at least one of~~holds a combination of information on the distance to said subject, information on the distance to the floor,~~ information on an~~the~~ orientation in the vertical direction, information on an~~the~~ orientation in the horizontal direction, zooming magnification information as internal information of said camera, motion detection information, and user-specific information~~, as said status information to be output to said main control means~~.

Claim 9 (Currently amended): The camera apparatus according to claim 8~~1~~, wherein said information output from said data holding means ~~holds a combination of said information on the distance to the subject, said information on the distance to the floor, said information on the orientation in vertical direction, said information on the orientation in horizontal direction, said zooming magnification information, said motion detection information, and said user-specific information, as said status information to be output to said main control means, in correspondence~~corresponds to a specific function.

Claim 10 (Currently amended): The camera apparatus according to claim 1, wherein said data holding means holds all of~~the information including~~ said information on the distance to the subject, said information on the distance to the floor, ~~said~~ information on an~~the~~ orientation in vertical direction, ~~said~~ information on an~~the~~ orientation in horizontal direction, ~~said~~ zooming magnification information, ~~said~~ motion detection information, and ~~said~~ user-specific information, as said status information to be output to said main control means.

Claim 11 (Currently amended): A camera apparatus as in~~system according to~~ any one of claims 1 through 10, further comprising~~characterized in that said camera apparatus including a camera and a controller comprises~~:

a display unit for displaying ~~said~~ image information from the camera and at least any of said ~~camera~~ status information, operation instruction information, and user-specific information set to said camera in accordance with an instruction from the operation determination means and that

said controller comprises display signal generation means for displaying said information on said display unit.

Claim 12 (Currently amended): The camera apparatus~~system~~ according to claim 11, wherein said controller comprises:

transmission means for outputting said status information held by said data holding means to an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera and that

said controller outputs ~~said~~ internal information of said camera held by said data holding means to said input operation unit via said transmission means.

Claim 13 (Currently amended): A method for controlling a~~the~~ camera system comprising the steps of:

providing the camera system, said camera system including a camera for photographing a subject; a rotating body for rotating said camera in order to track said subject; a controller for controlling the motion of said rotating body and a~~the~~ photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera;

wherein said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding ~~the~~ status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and

~~said method uses said~~controlling said rotating body via the main control means so that said subject will first appear in a center of an angle of view based on camera motion detection information and ~~said~~ information on the distance to the subject obtained based on a focusing control operation as information to be output from said data holding means to said main control means~~ to control said rotating body so that said subject will first appear in the center of the angle of view~~.

Claim 14 (Currently amended): The~~A~~ method of claim 13, wherein the step of controlling is further based on~~for controlling the camera system comprising: a camera for photographing a subject, a rotating body for rotating said camera in order to track said subject; a controller for controlling the motion of said rotating body and the photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera;~~

~~wherein said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding the status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and~~

~~said method uses said camera motion detection information and said~~ zooming magnification information as ~~said~~ internal information of the camera~~, as information to be output from said data holding means to said main control means, to control said rotating body so that said subject will first appear in the center of the angle of view~~.

Claim 15 (Currently amended): The~~A~~ method of claim 14, wherein the step of controlling is further based on~~for controlling the camera system comprising: a camera for photographing a subject, a rotating body for rotating said camera in order to track said subject; a controller for controlling the motion of said rotating body and the photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera; wherein~~

~~said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding the status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and~~

~~said method uses said camera motion detection information, said~~ focusing information as internal information of the camera ~~and said zooming magnification information as internal information of the camera, as information to be output from said data holding means to said main control means to control said~~

~~rotating body so that said subject will first appear in the center of the angle of view~~.